

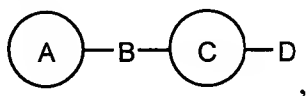
**In the Claims**

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Currently Amended) ~~[[A]] The polymeric article of claim 131, comprising: —a particle comprising a polymer, wherein the luminescent polymer comprising comprises an iptycene moiety.~~
2. (Original) The polymeric article of claim 1, wherein the iptycene moiety comprises at least three arene planes.
3. (Original) The polymeric article of claim 2, wherein the iptycene moiety comprises at least five arene planes.
4. (Currently Amended) The polymeric article of claim 1, wherein the iptycene moiety is at least a portion of a repeat unit of the luminescent polymer.
5. (Currently Amended) The polymeric article of claim ~~[[1]]~~ 131, wherein the luminescent polymer comprises a backbone.
6. (Original) The polymeric article of claim 5, wherein the backbone comprises a delocalized  $\pi$ -electron bond.
7. (Original) The polymeric article of claim 5, wherein the backbone comprises a benzene ring.
8. (Currently Amended) The polymeric article of claim 7, wherein the benzene ring is at least a portion of a repeat unit of the backbone of the luminescent polymer.

9. (Original) The polymeric article of claim 7, wherein a pendant group is attached to the backbone via the benzene ring.
10. (Cancelled)
11. (Currently Amended) The polymeric article of claim [[10]] 5, wherein the triple bond is at least a portion of a repeat unit of the luminescent polymer.
12. – 13. (Cancelled)
14. (Currently Amended) The polymeric article of claim [[1]] 131, wherein the luminescent polymer is a copolymer.
15. (Currently Amended) The polymeric article of claim [[1]] 131, wherein the luminescent polymer comprises at least one pendant group.
16. (Original) The polymeric article of claim 15, wherein the pendant group comprises an aliphatic chain.
17. (Original) The polymeric article of claim 15, wherein the pendant group comprises an ether chain.
18. (Currently Amended) The polymeric article of claim [[1]] 131, wherein the luminescent polymer comprises a charged moiety.
- 19-129. (Cancelled)
130. (Currently Amended) ~~The article of claim 46,~~ A polymeric article, comprising:  
a particle comprising a luminescent polymer, wherein the luminescent polymer  
comprises a plurality of triple bonds.

131. (Currently Amended) ~~The article of claim 128;~~ An article, comprising:  
a particle comprising a nucleic acid and a luminescent polymer, wherein the luminescent polymer comprises a triple bond.
132. (Previously Presented) The article of claim 131, wherein the luminescent polymer comprises a plurality of triple bonds.
133. (Currently Amended) The article of claim ~~[[128]]~~ 131, wherein the luminescent polymer comprises a copolymer formed from a plurality of monomers, wherein at least one monomer comprises a structure:



- wherein at least one of A and C comprises a bicyclic ring system, and at least one of B and D comprises a triple bond.
134. (Currently Amended) The article of claim ~~[[128]]~~ 141, wherein the particle is formed from the luminescent polymer, and wherein the nucleic acid is attached to the luminescent polymer.

135. (Currently Amended) ~~An article, comprising:~~ The article of claim 146  
~~a particle comprising a luminescent polymer,~~ wherein the luminescent polymer comprises ~~[[a]]~~ the moiety that is able to become attached to a biological, biochemical, and/or chemical molecule so as to form, upon attachment, a particle comprising the luminescent polymer attached to the biological, biochemical, and/or chemical molecule.

136. (Previously Presented) The article of claim 135, further comprising:  
the biological, biochemical, and/or chemical molecule attached to the luminescent polymer.

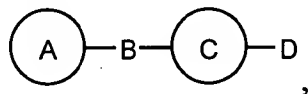
137. (Previously Presented) The article of claim 136, wherein the biological, biochemical, and/or chemical molecule is a nucleic acid molecule.

138. (Currently Amended) ~~The method of claim 129,~~ A method, comprising:

allowing a nucleic acid to become attached to a luminescent polymer, wherein the luminescent polymer comprises a triple bond.

139. (Previously Presented) The method of claim 138, wherein the luminescent polymer comprises a plurality of triple bonds.

140. (Currently Amended) The method of claim ~~[[129]]~~ 138, wherein the luminescent polymer comprises a copolymer formed from a plurality of monomers, wherein at least one monomer comprises a structure:



wherein at least one of A and C comprises a bicyclic ring system, and at least one of B and D comprises a triple bond.

141. (New) The article of claim 131, wherein the nucleic acid is attached to the particle.

142. (New) The article of claim 141, wherein the nucleic acid is attached to a substituent attached to or interspersed with a backbone chain of atoms comprising the luminescent polymer.

143. (New) The article of claim 142, wherein the substituent comprises a polymer chain.

144. (New) The article of claim 141, wherein the nucleic acid is attached to a side group attached to the luminescent polymer.

145. (New) The article of claim 131, wherein the particle includes a coating.

146. (New) The article of claim 130, wherein the particle comprises a moiety that is able to become attached to a biological, biochemical, and/or chemical molecule.